

Comparisons of Job Characteristics

Focus Occupation: Farm Equipment Mechanics and Service Technicians (49-3041)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 70

Focus Occupation: Farm Equipment Mechanics and Service Technicians (49-3041)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	19.3	19.7	0	Current knowledge level may be sufficient
Building and Construction	4.0	14.3	3.1	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	12.0	3.4	<<	Extensive education and/or training may be required
Design	5.2	11.7	5.3	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	10.3	8.4	<	Expanded education and/or training may be required
Physics	4.3	8.8	9.1	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Farm Equipment Mechanics and Service Technicians (49-3041)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	12.7	13.6	0	Current skill level may be sufficient
Repairing	3.4	12.3	14.3	>	Skill level is likely sufficient
Troubleshooting	4.5	10.0	12.9	>>	Skill level is likely more than sufficient
Quality Control Analysis	5.9	9.8	11.6	>	Skill level is likely sufficient
Equipment Selection	3.3	9.5	10.0	0	Current skill level may be sufficient
Installation	1.7	8.3	4.5	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 78			
Focus Occupation: Farm Equipment Mechanics and Service Technicians (49-3041) Associated Occupation: Maintenance and Repair Workers, General (49-9042)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Information Ordering	9.9	13.3	9.4	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	11.8	13.3	>	Current ability level is likely sufficient
Manual Dexterity	6.5	11.4	12.8	>	Current ability level is likely sufficient
Visualization	7.5	11.0	11.1	0	Current ability level may be sufficient
Static Strength	5.0	9.8	10.2	0	Current ability level may be sufficient
Extent Flexibility	4.8	9.2	11.0	>	Current ability level is likely sufficient
Speed of Limb Movement	3.2	5.8	5.7	0	Current ability level may be sufficient
Gross Body Equilibrium	3.2	5.6	4.5	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 88	
Focus Occupation: Farm Equipment Mechanics and Service Technicians (49-3041) Associated Occupation: Maintenance and Repair Workers, General (49-9042)			
Work Activities		Exclusivity of Activity	
Adhere to safety procedures		12	
Adjust or set mechanical controls or components		69	
Assemble and install pipe sections, fittings, or plumbing fixtures		71	
Assemble, dismantle, or reassemble equipment or machinery		70	
Conduct tests to locate mechanical system malfunction		71	
Determine installation, service, or repair needed		58	
Diagnose mechanical problems in machinery or equipment		65	
Fabricate, assemble, or disassemble manufactured products by hand		11	
Inspect machinery or equipment to determine adjustments or repairs needed		42	
Lubricate machinery, equipment, or parts		59	
Maintain repair records		65	
Maintain welding machines or equipment		70	
Move or fit heavy objects		8	
Observe or listen to machinery or equipment operation to detect malfunctions		81	
Operate crane in construction, manufacturing or repair setting		76	

Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read schematics	34
Read work order, instructions, formulas, or processing charts	9
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Repair or replace malfunctioning or worn mechanical components	62
Set up and operate variety of machine tools	62
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use arc welding equipment	62
Use basic plumbing techniques	72
Use combination welding procedures	68
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use knowledge of metric system	39
Use knowledge of welding filler rod types	75
Use machine tools in installation, maintenance, or repair	72
Use precision measuring devices in mechanical repair work	61
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Farm Equipment Mechanics and Service Technicians (49-3041)
Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.